

Fig. 1 Block diagram of the stabilized scintillation detector.

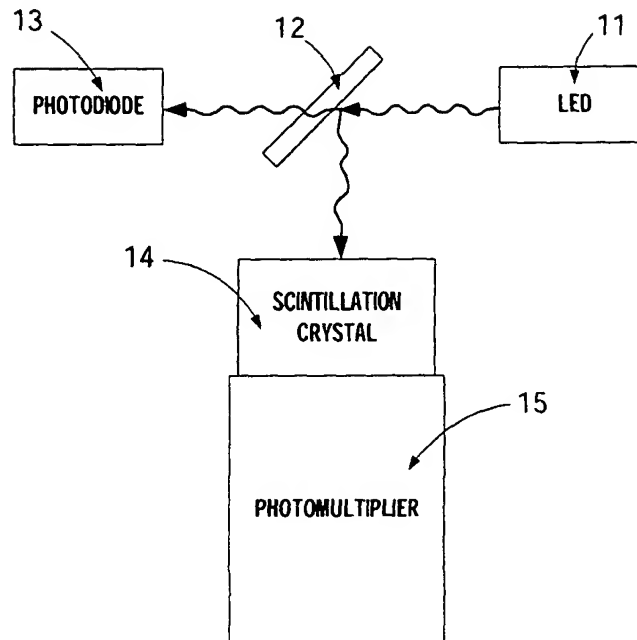


Fig. 2 Illumination of the photomultiplier (15) through the scintillation crystal (14). The scintillation crystal is directly coupled to the photomultiplier.

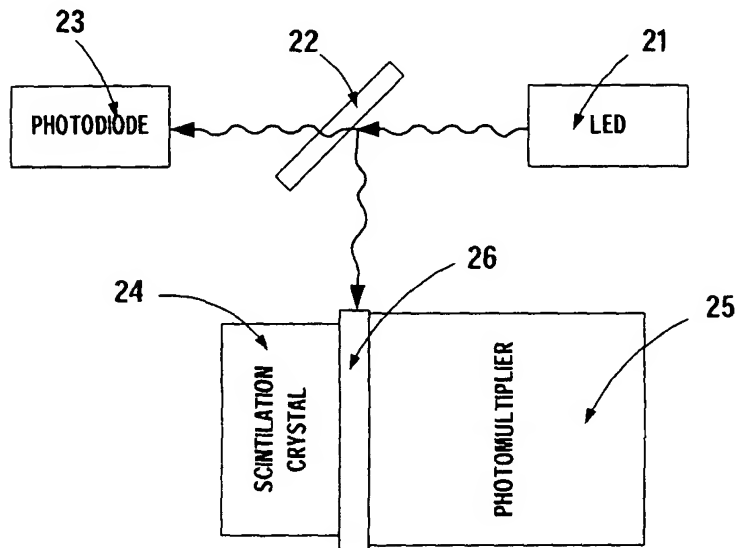


Fig. 3 Illumination of the photomultiplier (25) through light guide (26). The scintillation crystal (24) is coupled to the photomultiplier through the light guide (26).

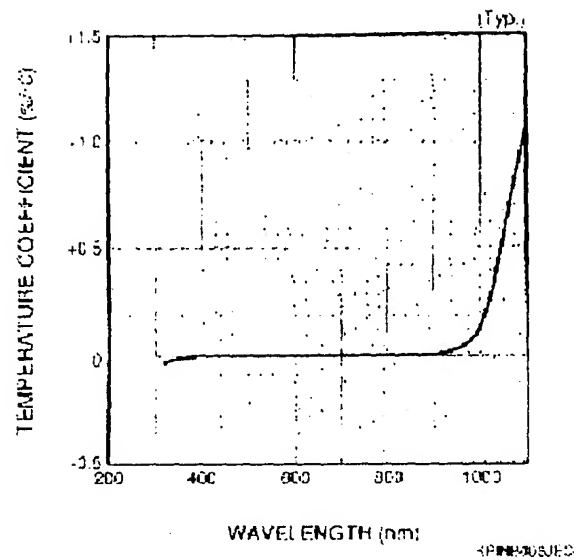


Fig. 4 Typical temperature coefficient of the photodiode quantum efficiency.

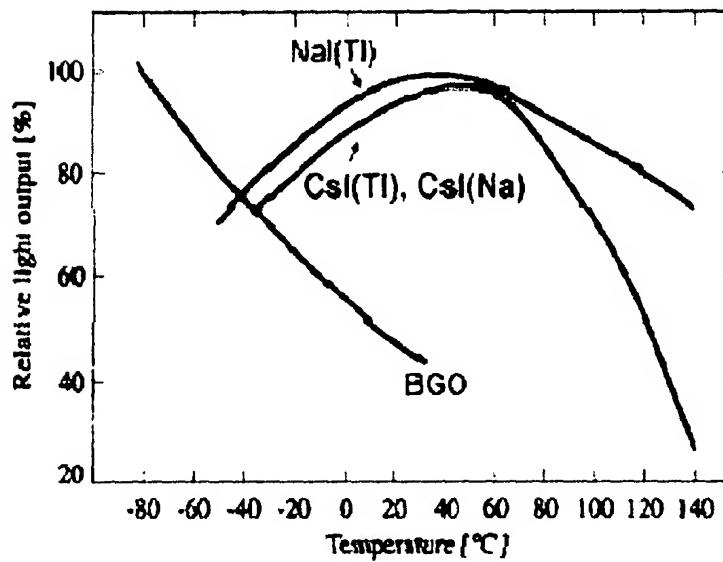


Fig. 5 Temperature dependence of the light output from inorganic scintillation crystals.

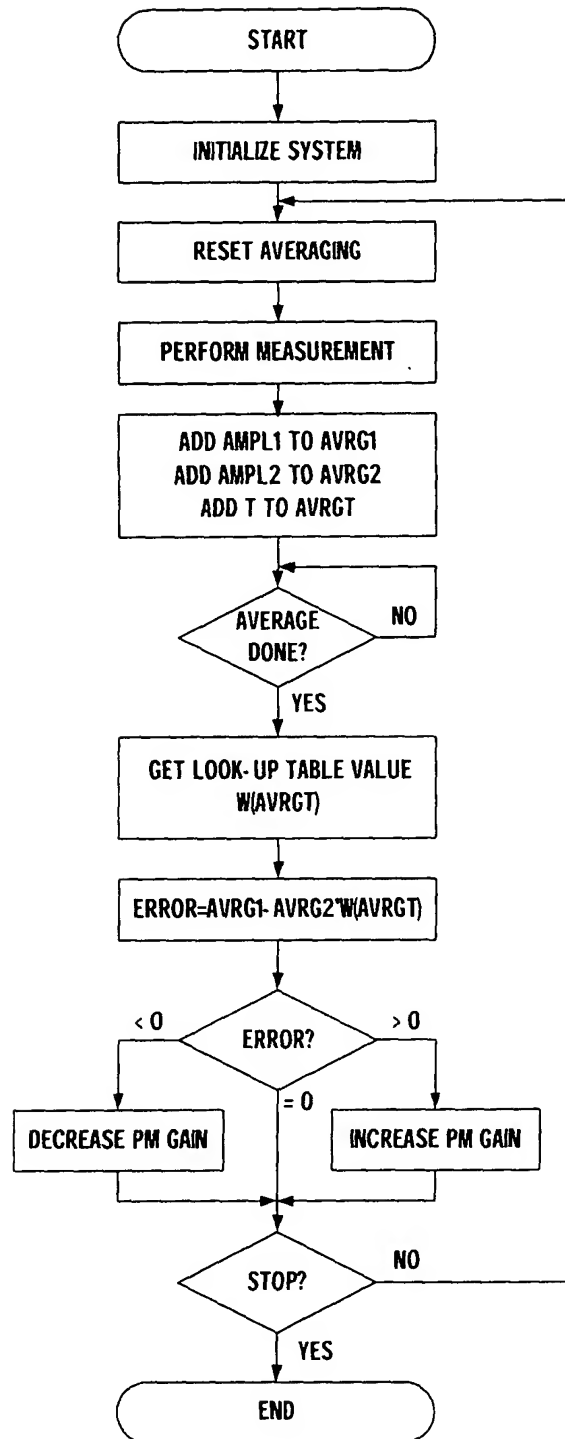


Fig. 6 Control unit stabilization algorithm.

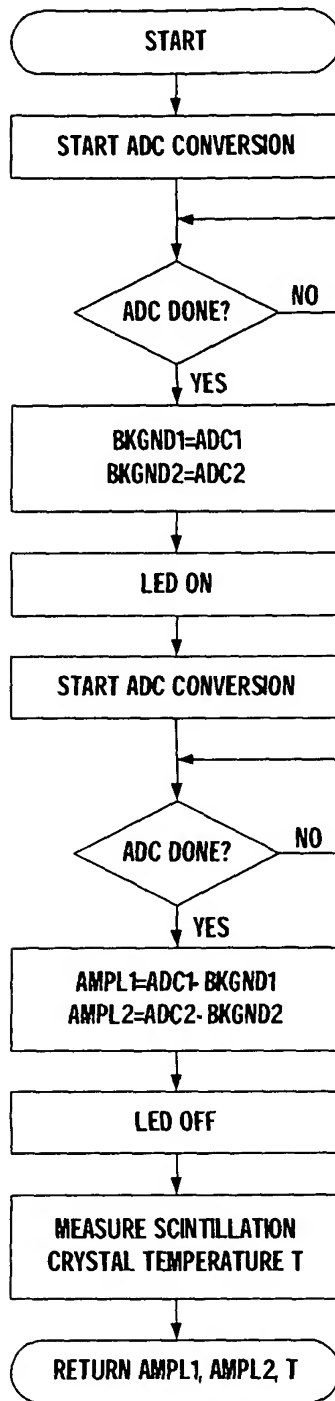


Fig. 7 Measurement algorithm.

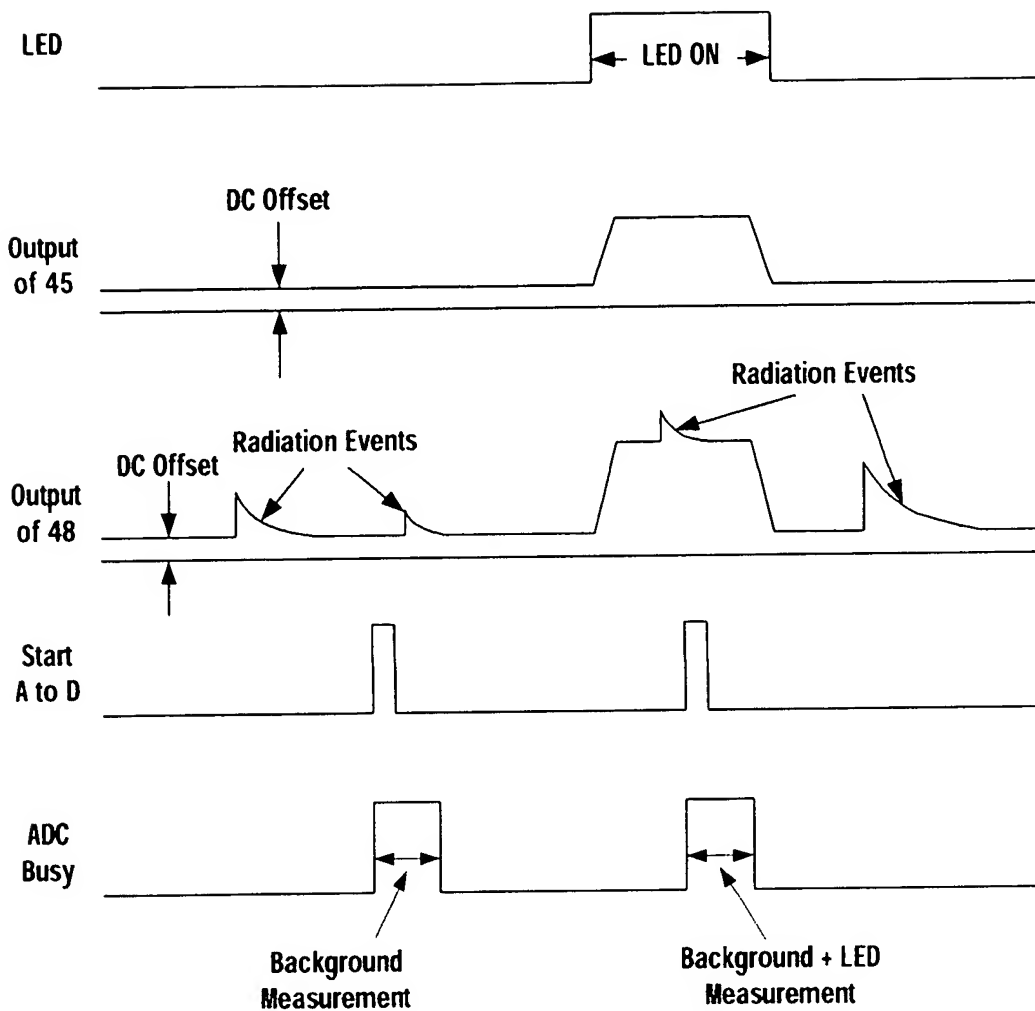


Fig. 8 Timing diagram of the background and the LED light measurement.